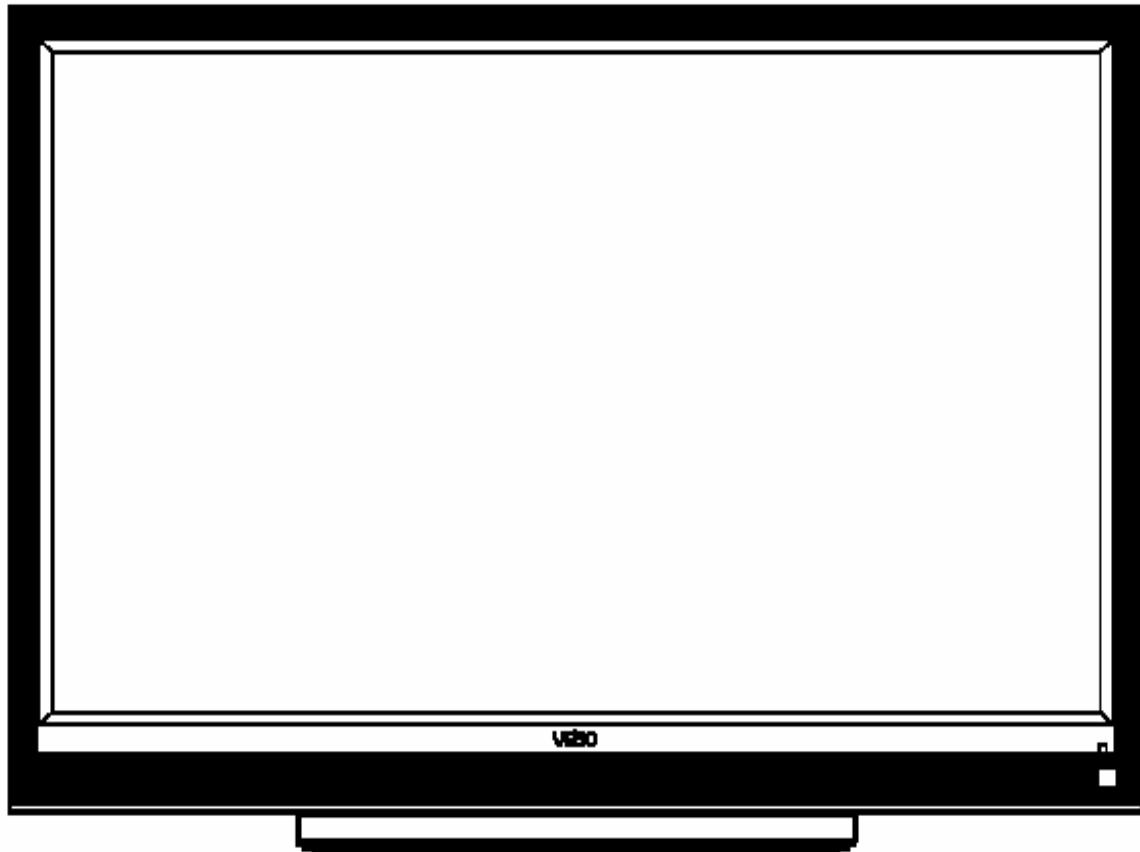


Service Manual



**Model #: VIZIO VO47L
FHDTV20A_LPL**

V, Inc

320A Kalmus Drive Costa Mesa, CA 92626

TEL : +714-668-0588 FAX :+714-668-9099

Top Confidential

Table of Contents

CONTENTS	PAGE
<i>Sections</i>	
1. Features	1-1
2. Specifications	2-1
3. On Screen Display	3-1
4. Factory Preset Timings	4-1
5. Pin Assignment	5-1
6. Main Board I/O Connections	6-1
7. Theory of Circuit Operation	7-1
8. Waveforms	8-1
9. Trouble Shooting	9-1
10. Block Diagram	10-1
11. Spare parts list	11-1
12. Complete Parts List	12-1

Appendix

1. Main Board Circuit Diagram
2. Main Board PCB Layout
3. Assembly Explosion Drawing

COPYRIGHT © 2000 V, INC. ALL RIGHTS RESERVED.

IBM and IBM products are registered trademarks of International Business Machines Corporation.

Macintosh and Power Macintosh are registered trademarks of Apple Computer, Inc.

VINC and VINC products are registered trademarks of V, Inc.

VESA, EDID, DPMS and DDC are registered trademarks of Video Electronics Standards Association (VESA).

Energy Star is a registered trademark of the US Environmental Protection Agency (EPA).

No part of this document may be copied, reproduced or transmitted by any means for any purpose without prior written permission from VINC.

FCC INFORMATION

This equipment has been tested and found to comply with the limits of a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that the interference will not occur in a particular installation. If this equipment does cause unacceptable interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures -- reorient or relocate the receiving antenna; increase the separation between equipment and receiver; or connect the into an outlet on a circuit different from that to which the receiver is connected.

FCC WARNING

To assure continued FCC compliance, the user must use a grounded power supply cord and the provided shielded video interface cable with bonded ferrite cores. Also, any unauthorized changes or modifications to Amtrak products will void the user's authority to operate this device. Thus VINC Will not be held responsible for the product and its safety.

CE CERTIFICATION

This device complies with the requirements of the EEC directive 89/336/EEC with regard to "Electromagnetic compatibility."

SAFETY CAUTION

Use a power cable that is properly grounded. Always use the AC cords as follows – USA (UL); Canada (CSA); Germany (VDE); Switzerland (SEV); Britain (BASEC/BS); Japan (Electric Appliance Control Act); or an AC cord that meets the local safety standards.

Chapter 1 Features

1. Built in TV channel selector for TV viewing
2. Simulatnueous display of PC and TV images
3. Connectable to PC's analog RGB port
4. Built in S-video, HDTV, composite video, HDMI and TV out
5. Built in auto adjust function for automatic adjument of screen display
6. High quality 1920X1080 pixel by pixel display.
7. Smoothing function enables display of smooth texts and graphics even if image with resolution lower than 1920X1080 is magnified
8. Advanced video functions for personal favor.
9. Picture In Picture (PIP) funtion to show TV or VCR images
10. Power saving to reduce consumption power to less than 0.5W
11. On Screen Display: user can define display mode (i.e. color, brightness, contrast, sharpness, backlight), sound setting, PIP, TV channel program, aspect and gamma or reset all setting.

Chapter 2 Specification

1. TFT-LCD CHARACTERISTICS

Model Name: LC470WUN-SAA1 (Vendor: LG. Display)

Display Size: 46.96 inches (1192.87mm) diagonal

Outline Dimension: 1096.0 mm (H) x 640.0 mm (V) x 51.0 mm (D) (Typ.)

Pixel Pitch: 0.5415mm x 0.5415mm x RGB

Pixel Format: 1920 horiz. By 1080 vert. Pixels RGB strip arrangement

Display Operating Mode: Transmissive mode, normally Black

Surface Treatment: Hard Coating (3H), Anti-glare treatment of the front polarizer (Haze 13%).

2. TFT-LCD OPTICAL CHARACTERISTICS

Contrast ratio: 1300(Typ) _ LC470WUN-SAA1

Surface Luminance, White: 500 cd/m² (Typ)

Luminance Variation, δ=1.3 (Max)

Response Time = 5ms (Max=8ms)

Viewing Angle (CR>10)

Left: 89° (min).

Right: 89° (min).

Top: 89° (min).

Bottom: 89° (min).

3. Input Connectors

1x Co-axial RF (ATSC/QAM/NTSC)

4x HDMI™** with HDCP (1 with Stereo Audio RCA)

2x Component YPbPr plus Stereo Audio

1x RGB PC plus Stereo Audio

1x S-Video plus Stereo Audio (shared with AV1)

2x Composite Video plus Stereo Audio (AV1 & AV2)

4. POWER SUPPLY

Input Voltage Level: 100~240 Vac, 50/ 60 Hz

Power Consumption: 400W Max. Power Off / Standby: to less than 0.5W

5. SPEAKER

Output 10W (max) X2

6. ENVIRONMENT

Operating Temperature: 0c~35c (Ambient)

Operating Humidity: Ta= 35 °C, 90%RH (Non-condensing)

Operating Altitude: 0 - 14,000 feet (4267.2m)(Non-Operating)

7. DIMENSIONS (Physical dimension)

Dimensions with stand :

1129.5mm(W) x 754.3mm(H) x 261.9mm(D) inches

Dimension without stand :

1129.5mm(W) x 720.7mm(H) x 116.7mm(D) inches

8. WEIGHT (Physical weight)

a. Net 34.7 +/- 0.5 kgs

b. Gross 42.45 +/- 1.0 kgs

Precaution

Please pay attention to the followings when you use this TFT LCD module.

1. OPERATING PRECAUTIONS

(1) The spike noise causes the mis-operation of circuits. It should be lower than following voltage :

$V = \pm 200\text{mV}$ (Over and under shoot voltage)

(2) Response time depends on the temperature. (In lower temperature, it becomes longer.)

-
- (3) Brightness depends on the temperature. (In lower temperature, it becomes lower.) And in lower temperature, response time (required time that brightness is stable after turned on) becomes longer.
 - (4) Be careful for condensation at sudden temperature change. Condensation makes damage to polarizer or electrical contacted parts. And after fading condensation, smear or spot will occur.
 - (5) When fixed patterns are displayed for a long time, remnant image is likely to occur.
 - (6) Module has high frequency circuits. System manufacturers shall do sufficient suppression to the electromagnetic interference. Grounding and shielding methods may be important to minimize the interference.

2. HANDLING PRECAUTIONS FOR PROTECTION

- (1) The protection film is attached to the bezel with a small masking tape. When the protection film is peeled off, static electricity is generated between the film and polarizer. This should be peeled off slowly and carefully by people who are electrically grounded and with well ion-blown equipment or in such a condition, etc.
- (2) When the module with protection film attached is stored for a long time, sometimes there remains a very small amount of glue still on the bezel after the protection film is peeled off.
- (3) You can remove the glue easily. When the glue remains on the bezel surface or its vestige is recognized, please wipe them off with absorbent cotton waste or other soft material like chamois soaked with normal-hexane.

Chapter 3 On Screen Display

On Screen Display (OSD) is a friendly interface providing the function adjusting in our system. Customers could operate it only by few buttons. There is the introduction of the OSD.

Main unit button

MENU	OK
CH +	↑
CH -	↓
VOL +	←
VOL -	→
Input	

[MENU]

"MENU" button could start the OSD which could adjust the performance and set up the setting between the different input sources. There are the structures.

TV Source



A. Picture: (Bold: Default)

- a. Picture Mode (**Custom**/Standard/Movie/Game/Vivid/Football/Golf/Basketball/
Baseball)
- b. Backlight (0~100, **90**)
- c. Brightness (0~100, **50**)
- d. Contrast (0~100, **50**)
- e. Color (saturation) (0~100, **50**)
- f. Tint (hue) (-32~32, **0**)
- g. Sharpness (0~7, **4**)
- h. Advanced Video
 - 1. Noise Reduction (**Low**/Medium/Strong/Off)
 - 2. Color Enhancement (**Normal**,Rich Color,Green/Flesh,Green/Blue,Off)
 - 3. Advanced Adaptive Luma (**Low** /Medium/Strong/Extend/Off)
 - 4. Enhanced Contrast Ratio (**Off**/On)
 - 5. Color Temperature (**Cool**/Normal/Warm/Custom)
- i. Reset Picture Mode

B. Audio: (Bold: Default)



- a. Audio Mode (**Flat**/Rock/Pop/Classic/Jazz)
- b. Equalizer

- c. Balance (-50~50, **0**)
- d. Surround (On/Off)
- e. Digital Audio Out (**PCM**/Off/Dolby Digital)
- f. Speakers (On/Off)
- g. Audio out (**Fixed**/Variable)
- h. Lip Sync (**0~5**)
- i. Reset Audio Mode

C. TV: (Bold: Default)



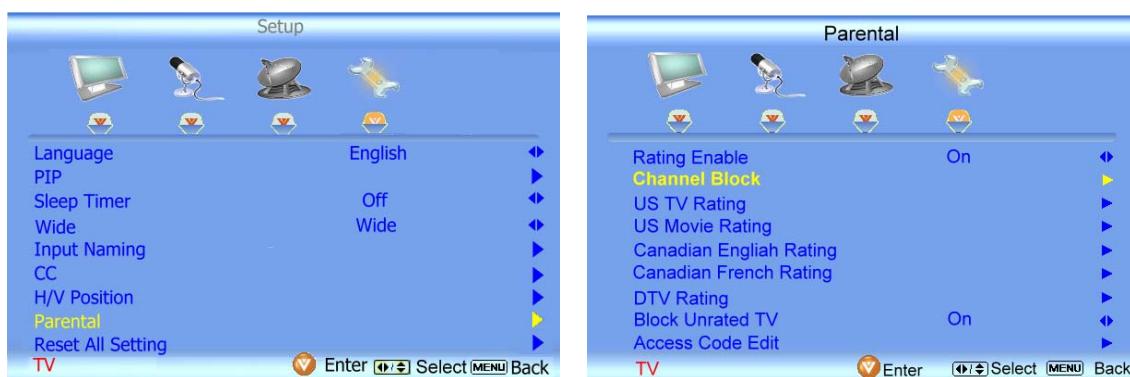
- a. Tuner Mode (**Cable**/Antenna)
- b. Auto Search
- c. Partial Channel Search
- d. Skip Channel
- e. MTS (ATV:Mono/Stereo/Sap : DTV:Language1/Language2/Language3)
- f. Time (**Eastern**/Atlantic/Indiana/Cential/Mountain/Arizona/Newfoundland/Pacific/Alaska/Hawaii)
- g. Daylight Saving (**On**/Off)

D. Setup: (**Bold**: Default)



- a. Language (**English**/ Français / Español)
- b. PIP
 - 1. PIP Mode (**Off**/PIP/POP)
 - 2. PIP Source (Component1/Component2/RGB/HDMI1/HDMI2/HDMI3/HDMI4)
 - 3. PIP Position(**Bottom Right**/Bottom Center/Bottom Left/Middle Left/Top Left/Top Center/Top Right/Middle Right)
 - 4. Size (**Small**/Medium/Large)
 - 5. Audio Source (Main/PIP)
- c. Sleep Timer (**Off**/30Min/60Min/90Min/120Min)
- d. Wide (Wide/Zoom/Panoramic/Normal)
- e. Input Naming (AV1/AV2/Component1/Component2/RGB/HDMI1/HDMI2/HDMI3/HDMI4)
- f. CC
 - 1. CC (**Off**/CC1~4/Service1~6)
 - 2. Digital CC Style
 - a). Caption Style (**As Broadcaster**/Custom)
 - b). Font Size (**Large**/Small/Medium)

- c). Font Color (**White/Green/Blue/Red/Cyan/Yellow/Magenta/Black**)
- d). Font Opacity (**Solid/Translucent/Transparent**)
- e). Background Color (White/Green/Blue/Red/Cyan/Yellow/Magenta/**Black**)
- f). Background Opacity (**Solid/Translucent/Transparent**)
- g). Window Color (White/Green/Blue/Red/Cyan/Yellow/Magenta/**Black**)
- h). Window Opacity (Solid/Translucent/**Transparent**)
- g. H/V Position
1. H. Position (0~64, **32**)
 2. V. Position (0~32, **16**)
 3. H-Size (0~100, **0**)
 4. V-Size (0~100, **20**)
- h. Parental: (**Bold: Default**)

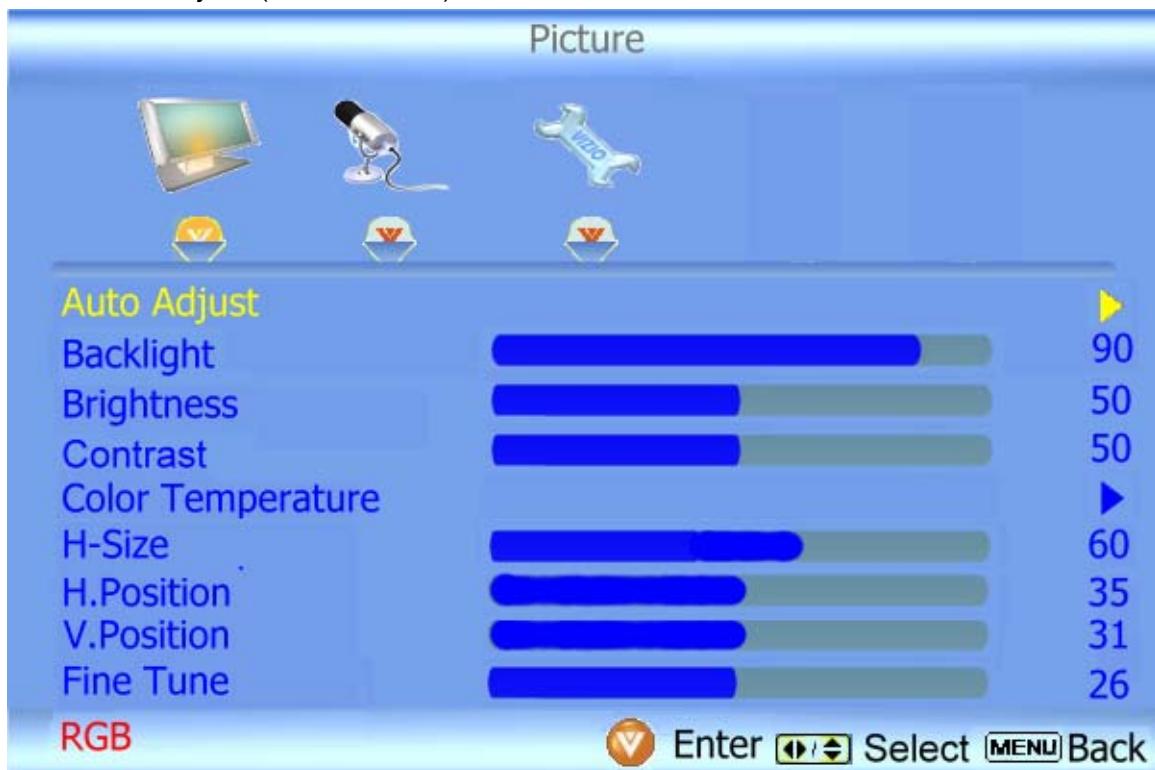


Password (Default => 0000)

1. Rating Enable (**On/Off**)
2. Cannel Block
3. US TV Rating
4. US Movie Rating
5. Canadian English Rating
6. Canadian French Rating
7. DTV Rating
8. Block Unrated TV (**No/Yes**)
9. Access Code Edit
- i. Rest All Setting

RGB Mode

A. Picture Adjust: (**Bold**: Default)



- a. Auto Adjust
- b. Backlight (0~100, **90**)
- c. Brightness (0~100, **50**)
- d. Contrast (0~100, **50**)
- e. Color Temperature (6500/**9300**/Custom)
- f. H-Size (0~255, **127**)
- g. H. Position (0~100, **61**)
- h. V. Position (0~100, **47**)
- i. Fine Tune (0~31, **16**)

B. Audio: (Bold: Default)



- a. Audio Mode (**Flat**/Rock/Pop/Classic/Jazz)
- b. Equalizer
- c. Balance (-50~50, **0**)
- d. Surround (**On**/**Off**)
- e. Digital Audio Out (**PCM**/Off/Dolby Digital)
- f. Speakers (**On**/**Off**)
- g. Audio out (**Fixed**/Variable)
- h. Lip Sync (**0**~5)
- i. Reset Audio Mode

D. Setup : (Bold: Default)



- a. Language (**English**/ Français / Español)
- b. PIP
 - 1. PIP Mode (**OFF**/PIP/POP)
 - 2. PIP Source (TV/AV1/AV2/HDMI1/ HDMI2/HDMI3/HDMI4)
 - 3. PIP Position(**Bottom Right**/Bottom Center/Bottom Left/Middle Left/ Top Left/Top Center/Top Right/Middle Right)
 - 4. Size (**Small**/Medium/Large)
 - 5. Audio Source (Main/PIP)
- c. Sleep Timer (**Off**/30Min/60Min/90Min/120Min)
- d. Wide (Wide/Normal/Panoramic)
- e. Input Naming (AV1/AV2/Component1/Component2/RGB/HDMI1/ HDMI2/HDMI3/HDMI4)
- f. Reset All Setting

AV / COMPONENT MODE

A. Picture : (Bold: Default)



- a. Picture Mode (Standard/Movie /Game/Vivid/Football/Golf/Basketball/Baseball/**Custom**)
- b. Backlight (0~100, **90**)
- c. Brightness (0~100, **50**)
- d. Contrast (0~100, **50**)
- e. Color (saturation)(0~100, **50**)
- f. Tint (hue) (-32~32, **0**)
- g. Sharpness (0~7, **4**)
- h. Advanced Video
 - 1. Noise Reduction (**Low**/Medium/Strong/Off)
 - 2. Color Enhancement (**Normal**,Rich Color,Green/Flesh,Green/Blue,Off)
 - 3. Advanced Adaptive Luma (**Low** /Medium/Strong/Extend/Off)
 - 4. Enhanced Contrast Ratio (**Off**/On)
 - 5. Color Temperature (**Cool**/Normal/Warm/Custom)
- i. Reset Picture Mode

B. Audio : (Bold: Default)



- a. Audio Mode (**Flat**/Rock/Pop/Classic/Jazz)
- b. Equalizer
- c. Balance (-50~50, **0**)
- d. Surround (On/**Off**)
- e. Digital Audio Out (**PCM**/off/Dolby Digital)
- f. Speakers (**On**/Off)
- g. Audio out (**Fixed**/Variable)
- h. Lip Sync (**0**~5)
- i. Reset Audio Mode

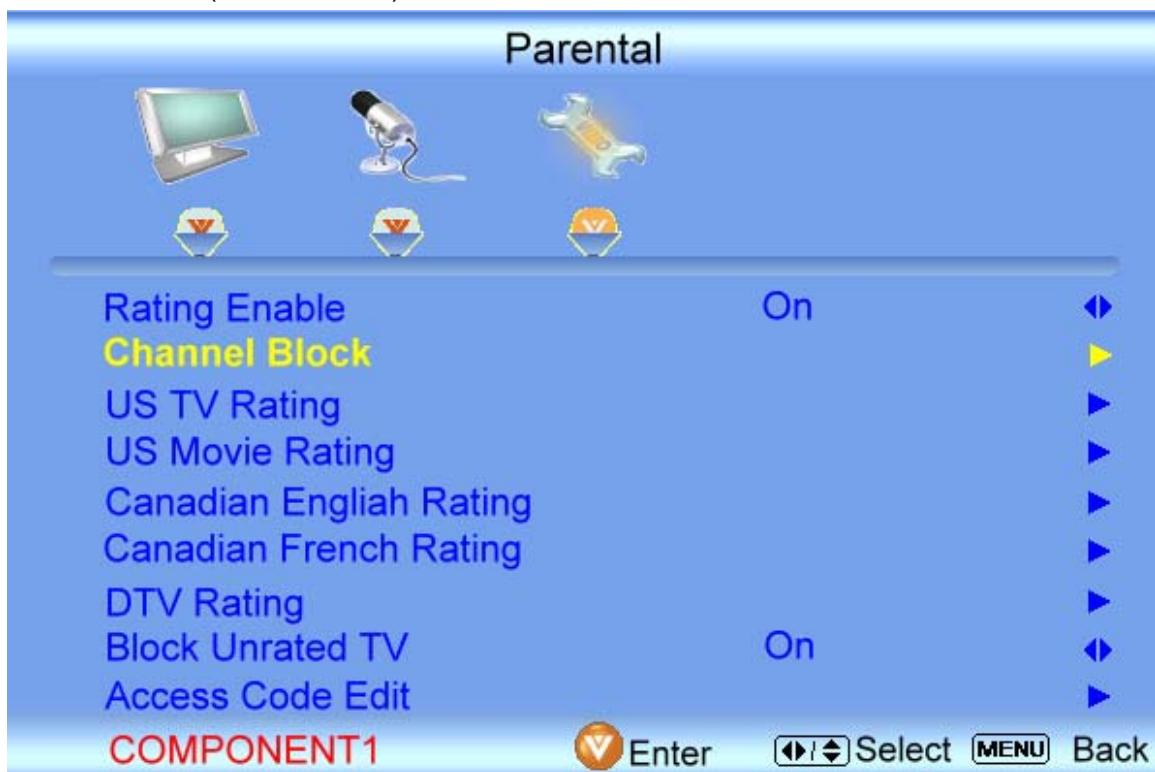
C. Setup : (Bold: Default)



- a. Language (**English**/ Français / Español)
- b. PIP
 - 1. PIP Mode (**OFF**/PIP/POP)
 - 2. PIP Source (TV/AV1/AV2/HDMI1/ HDMI2/HDMI3/HDMI4)
 - 3. PIP Position(**Bottom Right**/Bottom Center/Bottom Left/Middle Left/ Top Left/Top Center/Top Right/Middle Right)
 - 4. Size (Small/Medium/Large)
 - 5. Audio Source (Main/PIP)
- c. Sleep Timer (OFF/30Min/60Min/90Min/120Min)
- d. Wide (Wide/Normal/Panoramic)
- e. Input Naming (AV1/AV2/Component1/Component2/RGB/HDMI1/HDMI2/HDMI3/ HDMI4)
- f. CC
 - 1. CC (**OFF**/CC1~CC4)
- g. H/V Position
 - 1. H. Position (0~64, **32**)
 - 2. V. Position (0~32, **16**)
 - 3. H-Size (0~100, **0**)
 - 4. V-Size (0~100, **20**)

5. Auto Phase

h. Parental: (**Bold: Default**)



Password (**Default => 0000**)

1. Rating Enable (On/Off)
2. US TV Rating
3. US Movie Rating
4. Canadian English Rating
5. Canadian French Rating
6. Block Unrated TV (**NO/Yes**)
8. Access Code Edit

i. Rest All Setting

HDMI MODE

A. Picture : (Bold: Default)



- a. Picture Mode (Standard/Movie /Game/Vivid/Football/Golf/Basketball/Baseball/**Custom**)
- b. Backlight (0~100, **90**)
- c. Brightness (0~100, **50**)
- d. Contrast (0~100, **50**)
- e. Color (saturation)(0~100, **50**)
- f. Tint (hue) (-32~32, **0**)
- g. Sharpness (0~7, **4**)
- h. Advanced Video
 - 1. Noise Reduction (**Low**/Medium/Strong/Off)
 - 2. Color Enhancement (**Normal**,Rich Color,Green/Flesh,Green/Blue,Off)
 - 3. Advanced Adaptive Luma (**Low** /Medium/Strong/Extend/Off)
 - 4. Enhanced Contrast Ratio (**Off**/On)
 - 5. Color Temperature (**Cool**/Normal/Warm/Custom)
- i. Reset Picture Mode

B. Audio : (Bold: Default)



- a. Audio Mode (**Flat**/Rock/Pop/Classic/Jazz)
- b. Equalizer
- c. Balance (-50~50, **0**)
- d. Surround (On/Off)
- e. Digital Audio Out (**PCM**/off/Dolby Digital)
- f. Speakers (**On**/Off)
- g. Audio out (**Fixed**/Variable)
- h. Lip Sync (**0~5**)
- i. Reset Audio Mode

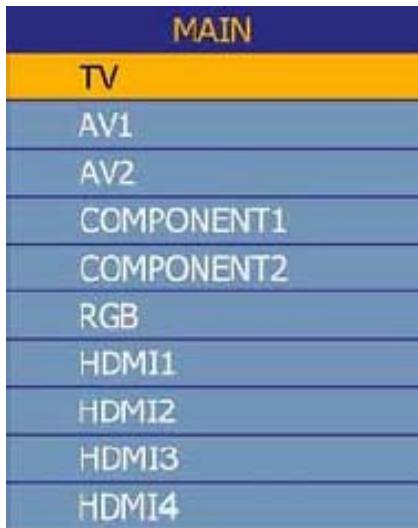
C. Setup : (Bold: Default)



- a. Language (**English**/ Français / Español)
- b. PIP
 - 1. PIP Mode (**OFF**/PIP/POP)
 - 2. PIP Source (TV/AV1/AV2/Component1/Component2/RGB)
 - 3. PIP Position(**Bottom Right**, Bottom Center, Bottom Left, Middle Left, Top Left, Top Center, Top Right, Middle Right)
 - 4. Size (Small/Medium/Large)
 - 5. Audio Source (Main/PIP)
- c. Sleep Timer (OFF/30Min/60Min/90Min/120Min)
- d. Wide (Wide/Normal/Panoramic)
- e. Input Naming (AV1/AV2/Component1/Component2/RGB/HDMI1/HDMI2/HDMI3/HDMI4)
- f. H/V Position
 - 1. H. Position (0~64, **32**)
 - 2. V. Position (0~32, **16**)
 - 3. H-Size (0~100, **0**)
 - 4. V-Size (0~100, **20**)
- g. Rest All Setting

[INPUT]

“INPUT” could supply an interface providing a list. The list shows input sources and provides the choices of different sources. The list includes items as below:



- A. TV: Analog TV or Digital TV
- B. AV1, AV2: Composite (AV) or S-Video signal
- C. Component1, Component2: Color difference (YPbPr) video signals.
- D. RGB: Video Graphics Array (VGA) or D-sub video signals.
- E. HDMI1, HDMI2, HDMI3, HDMI4: High Definition Multimedia Interface (HDMI) multimedia signals.

Note : The list of PIP provides the choices of different sources on sub-screen.

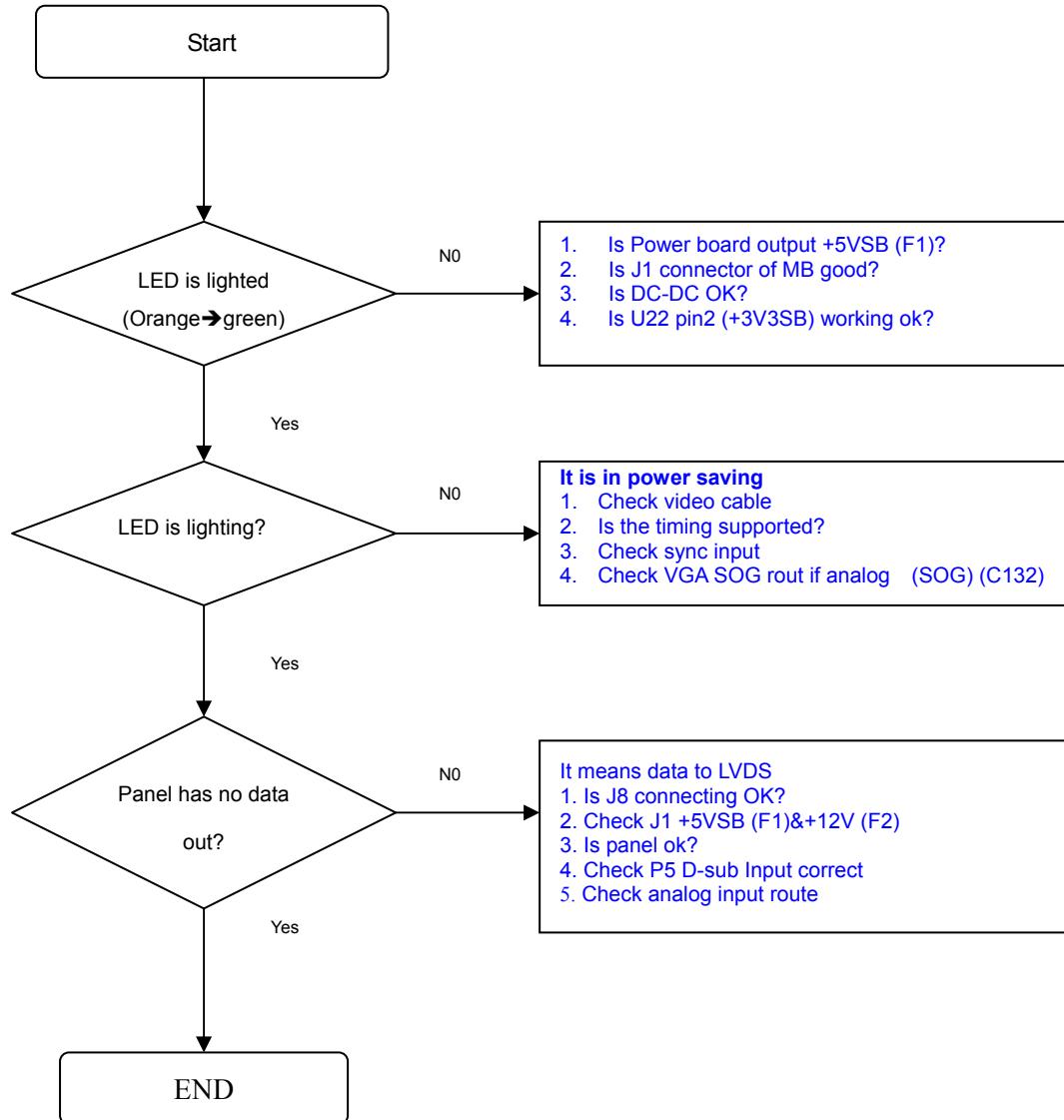
[INFO]

“INFO” button could show an information bar which displays the information about the input signal on our LCD TV.

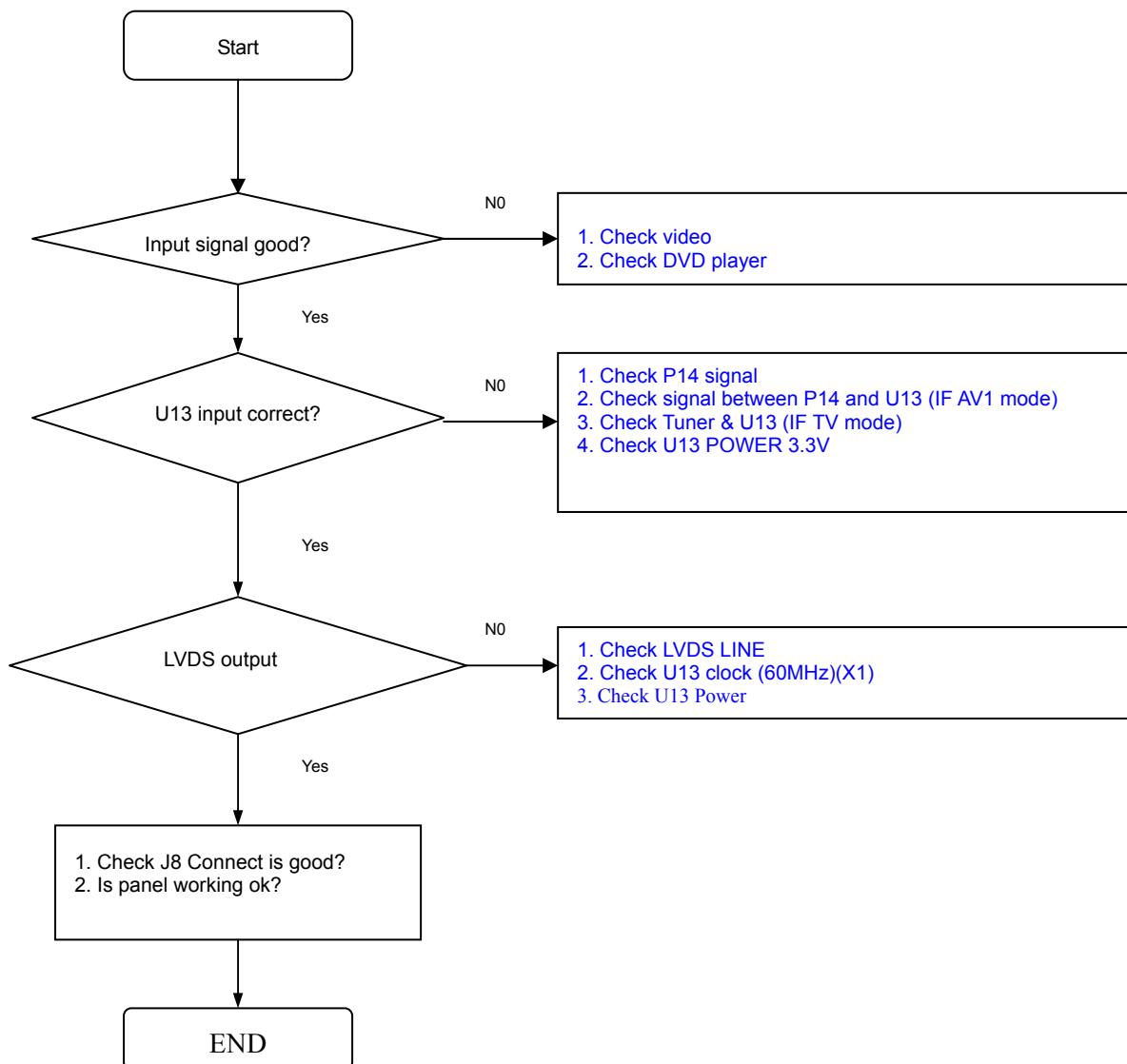


Chapter 9 Trouble shooting

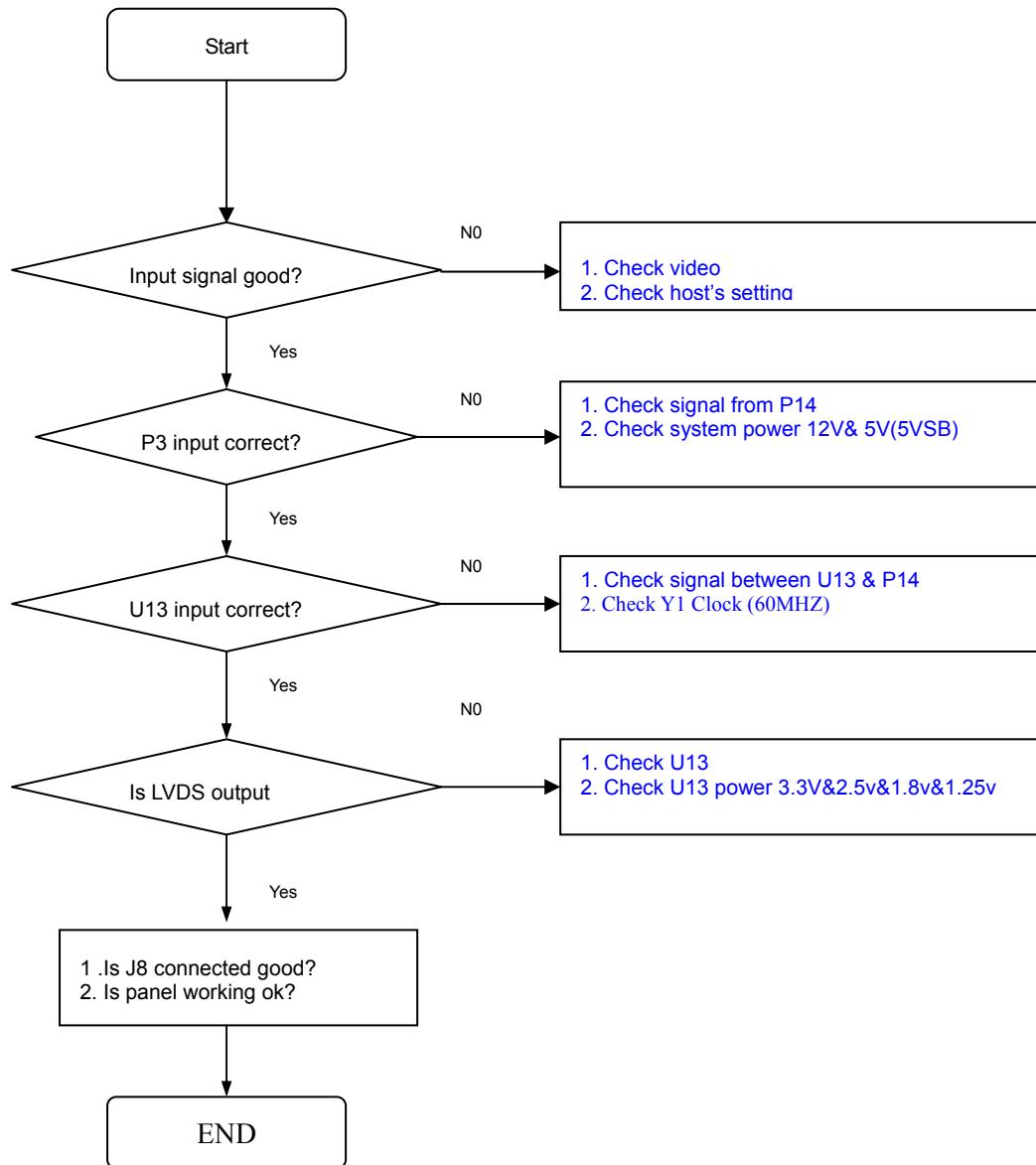
MONITOR DISPLAY NOTHING (PC MODE)



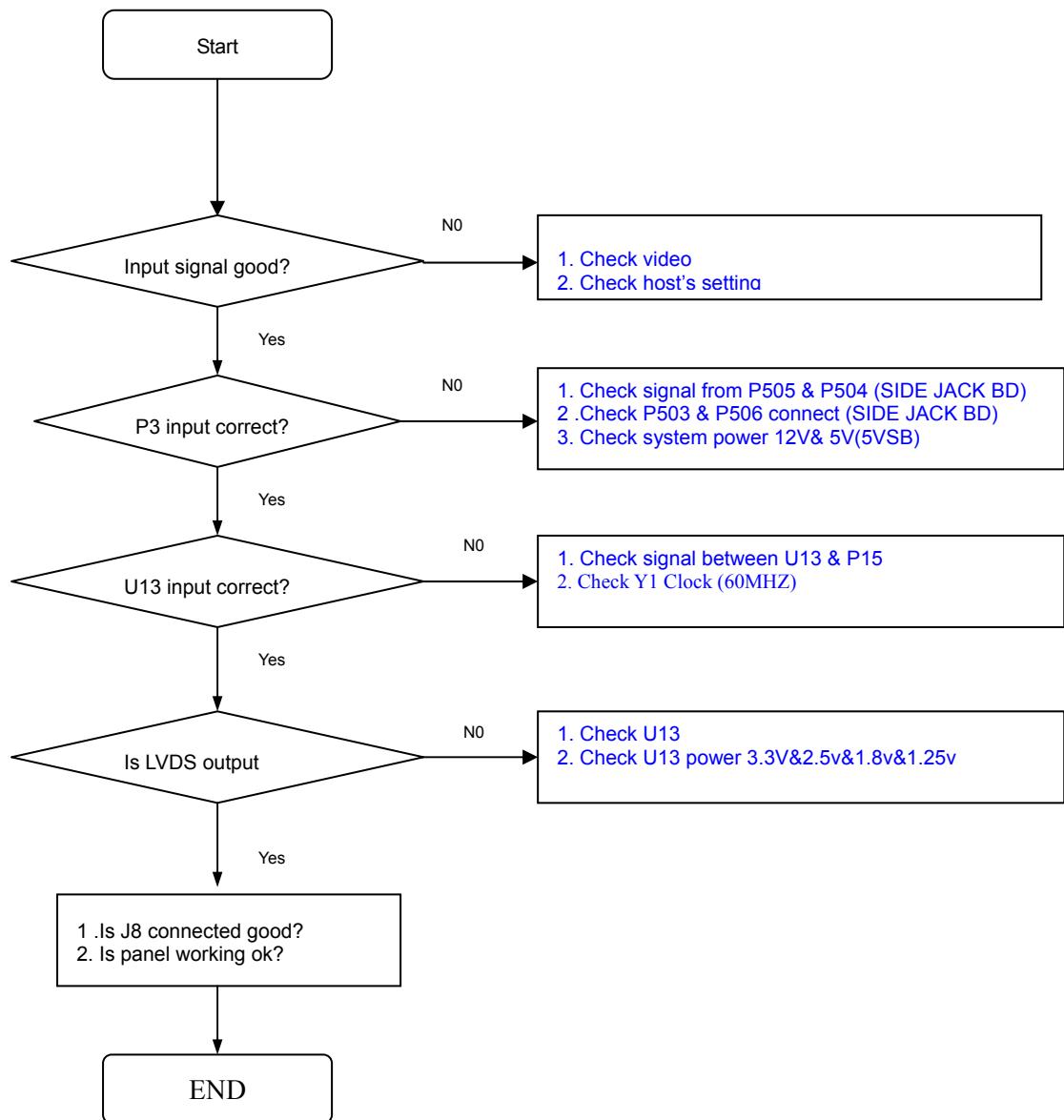
(TV, COMPOSITE VIDEO1, S-VIDEO) IS NOT DISPLAY CORRECTLY



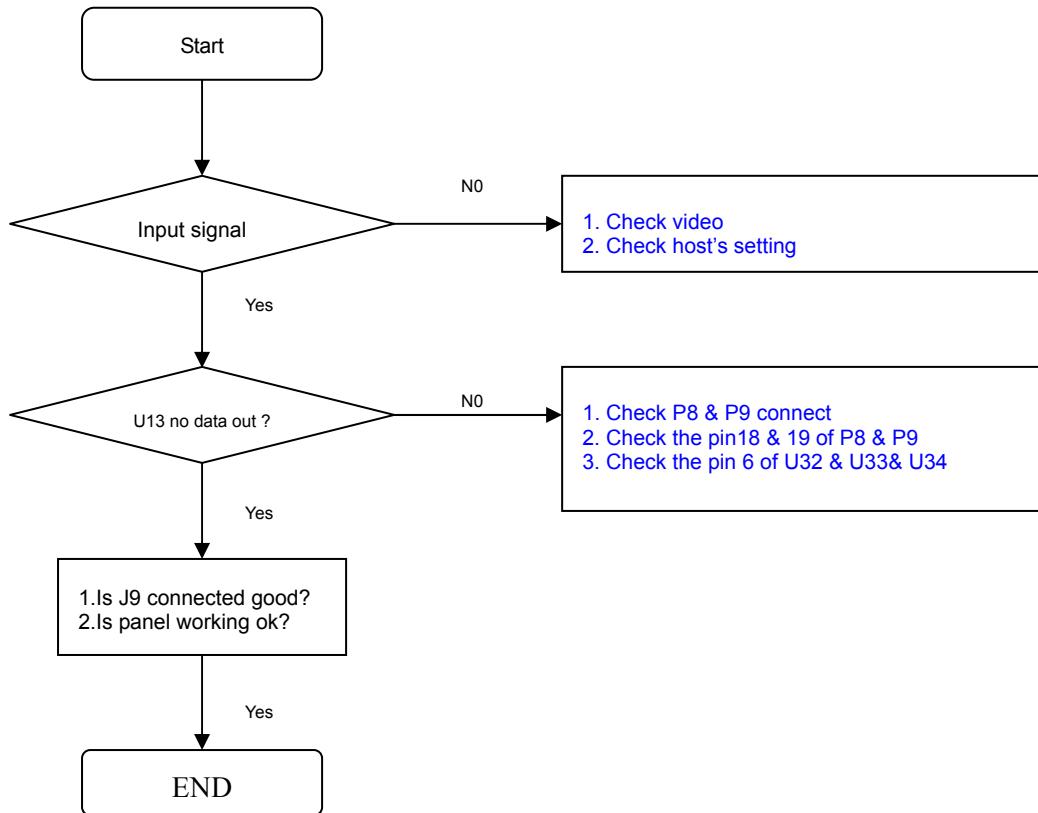
(COMPONENT1) IS NOT DISPLAY CORRECTLY



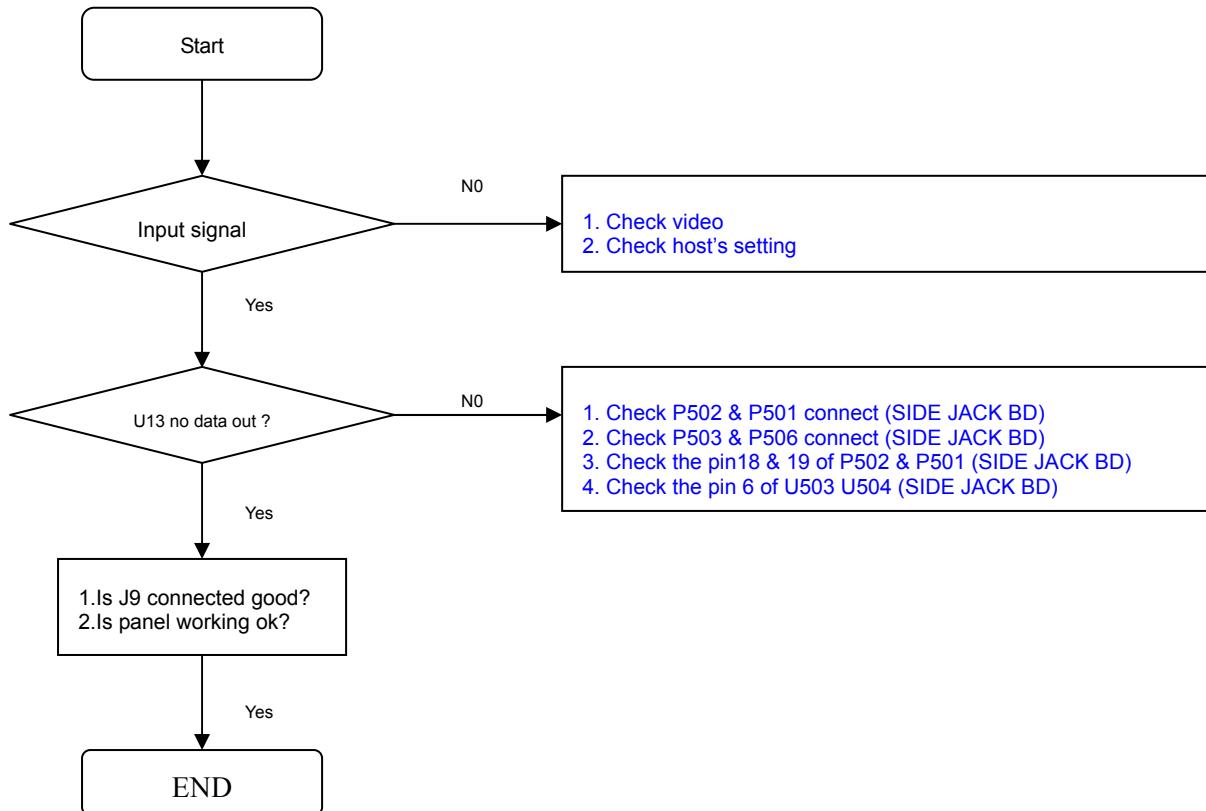
(SIDE JACK BD COMPONENT2 & VEDIO 2) IS NOT DISPLAY CORRECTLY



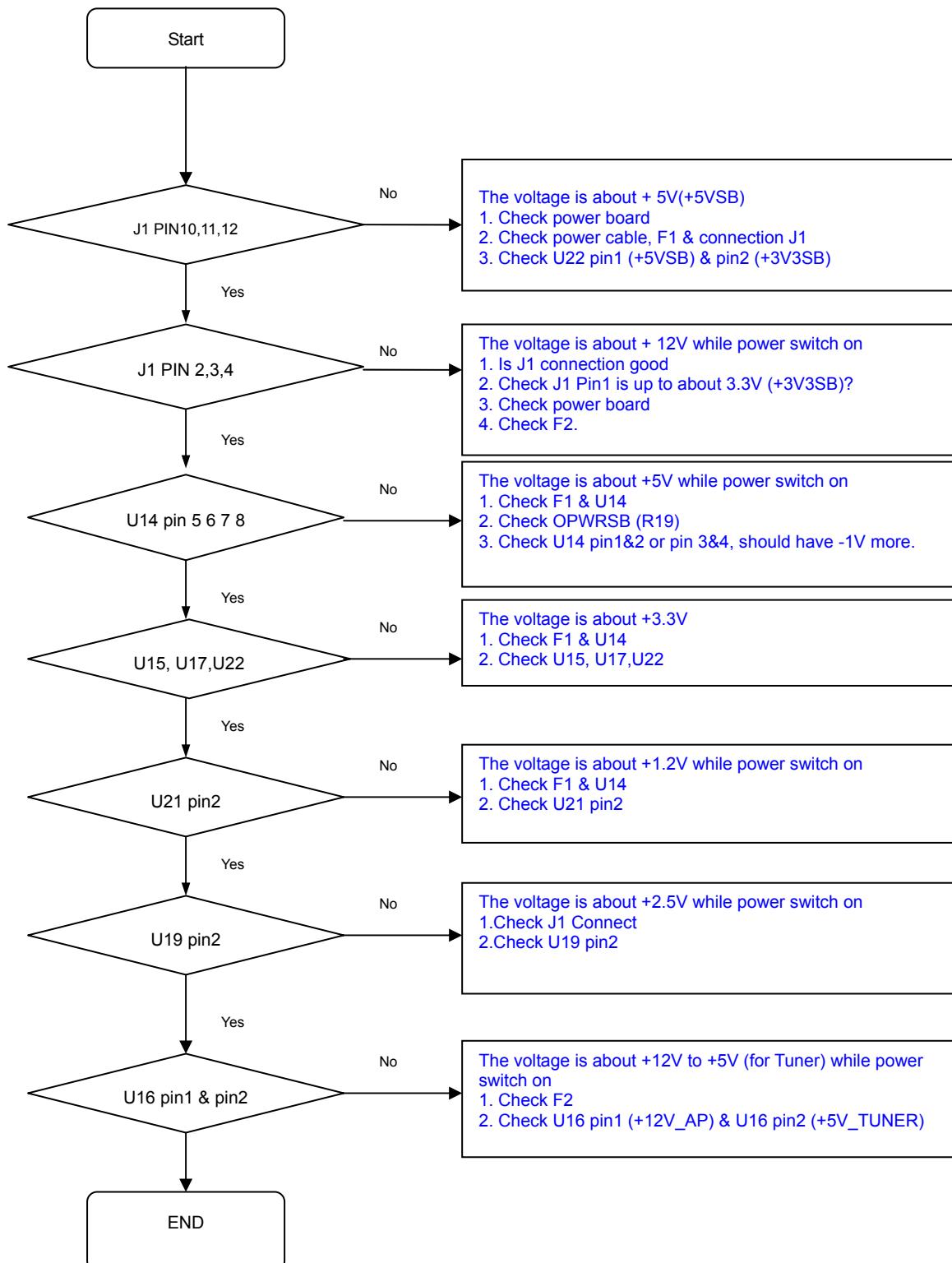
(HDMI 1, 2) IS NOT DISPLAY CORRECTLY



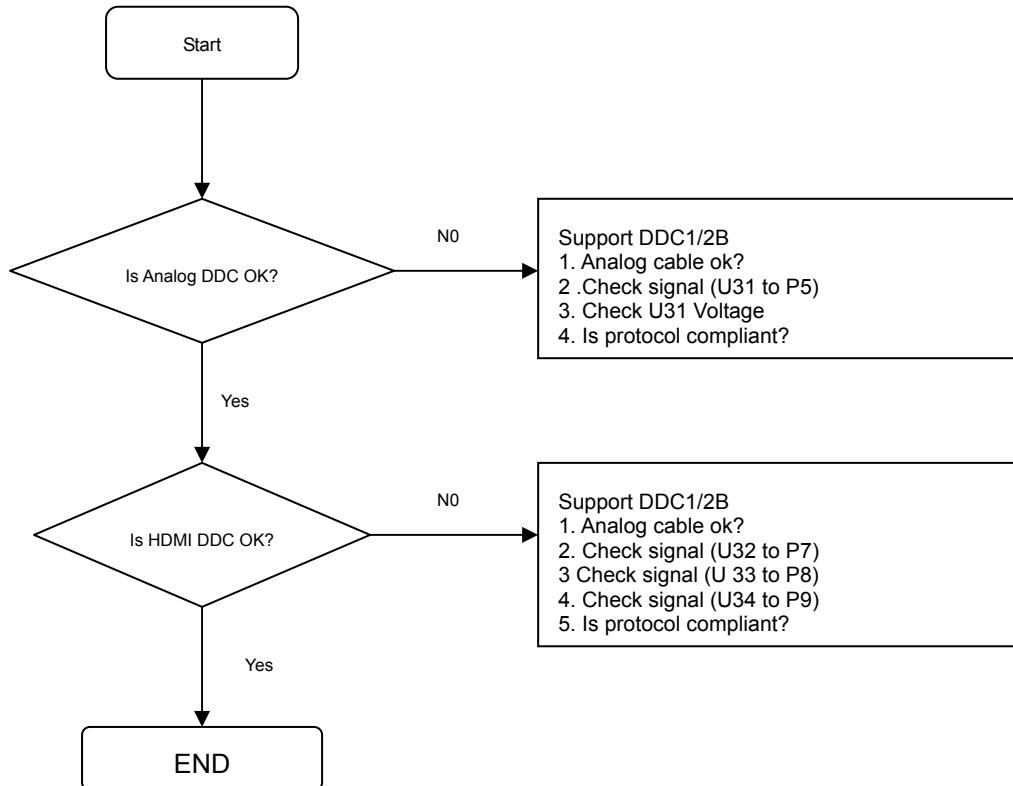
(SIDE JACK BD HDMI 3, 4) IS NOT DISPLAY CORRECTLY



TROUBLE OF DC-DC CONVERTER



TROUBLE OF EDID READING

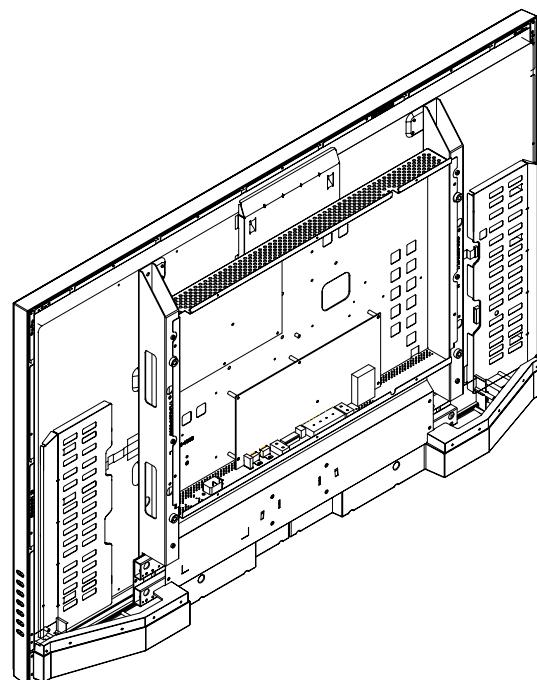
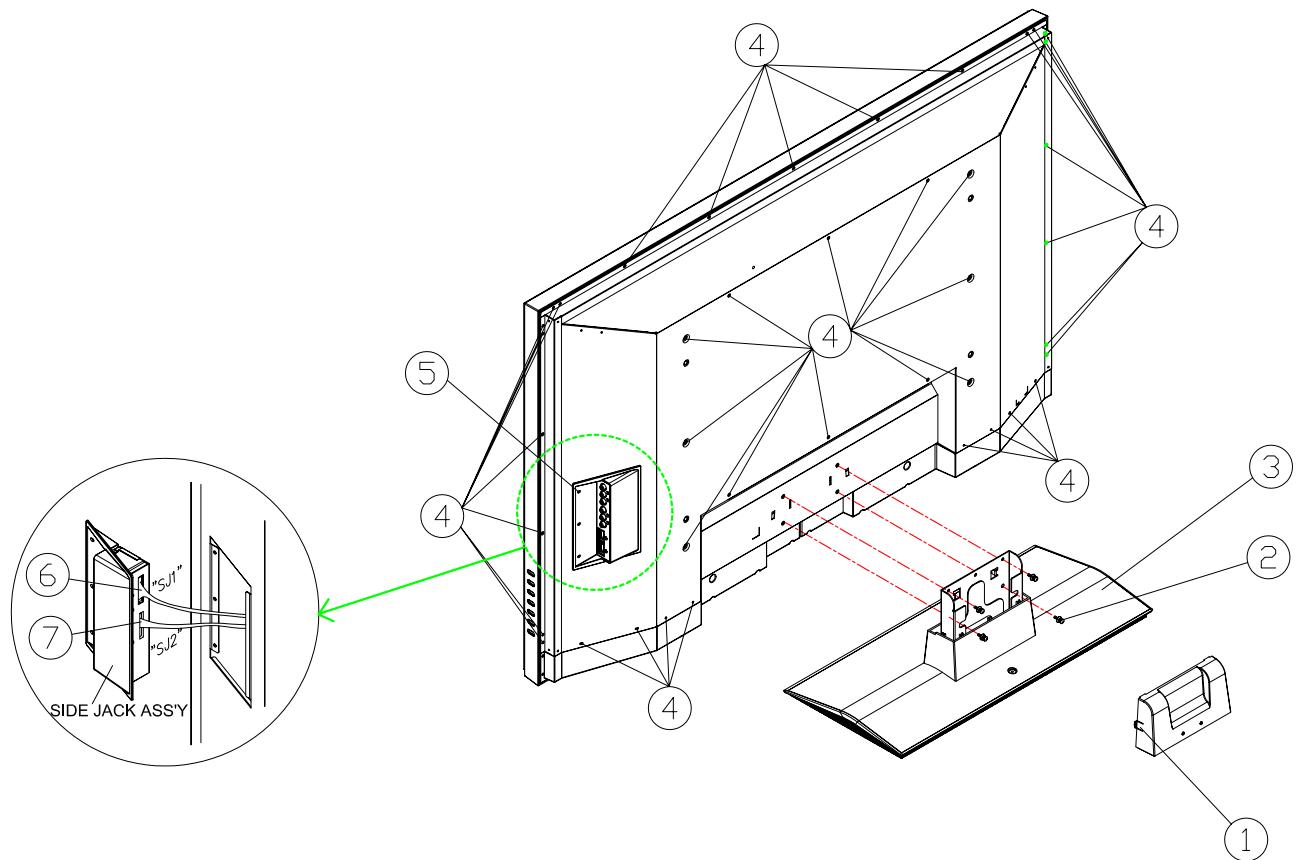


DISASSEMBLY INSTRUCTIONS

1. REAR COVER ASS'Y /CONNECTOR BD ASS'Y REMOVAL

Note: Spread a mat underneath to avoid damaging the HDTV surface.

- 1) Separate the base cover ①.
- 2) Remove four screws ② from Base Ass'y ③ .
- 3) Separate the Base Ass'y ③ .
- 4) Remove four one screws ④ and three screws ⑤ from rear cover.
- 5) Remove the connector ⑥ ⑦ (SJI)(SJ2) of the side jack cable 1/2.
- 5) Separate the rear cover and side jack Ass'y .

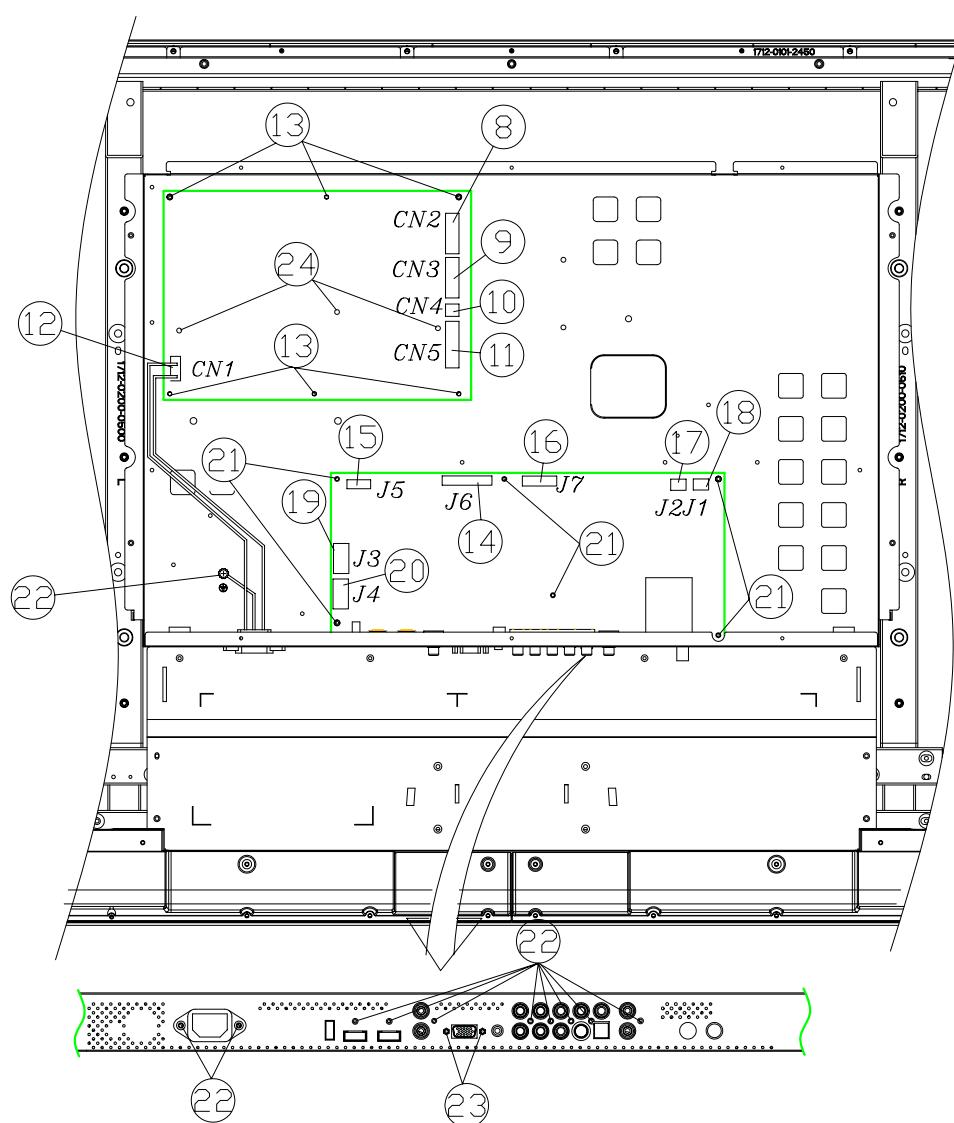


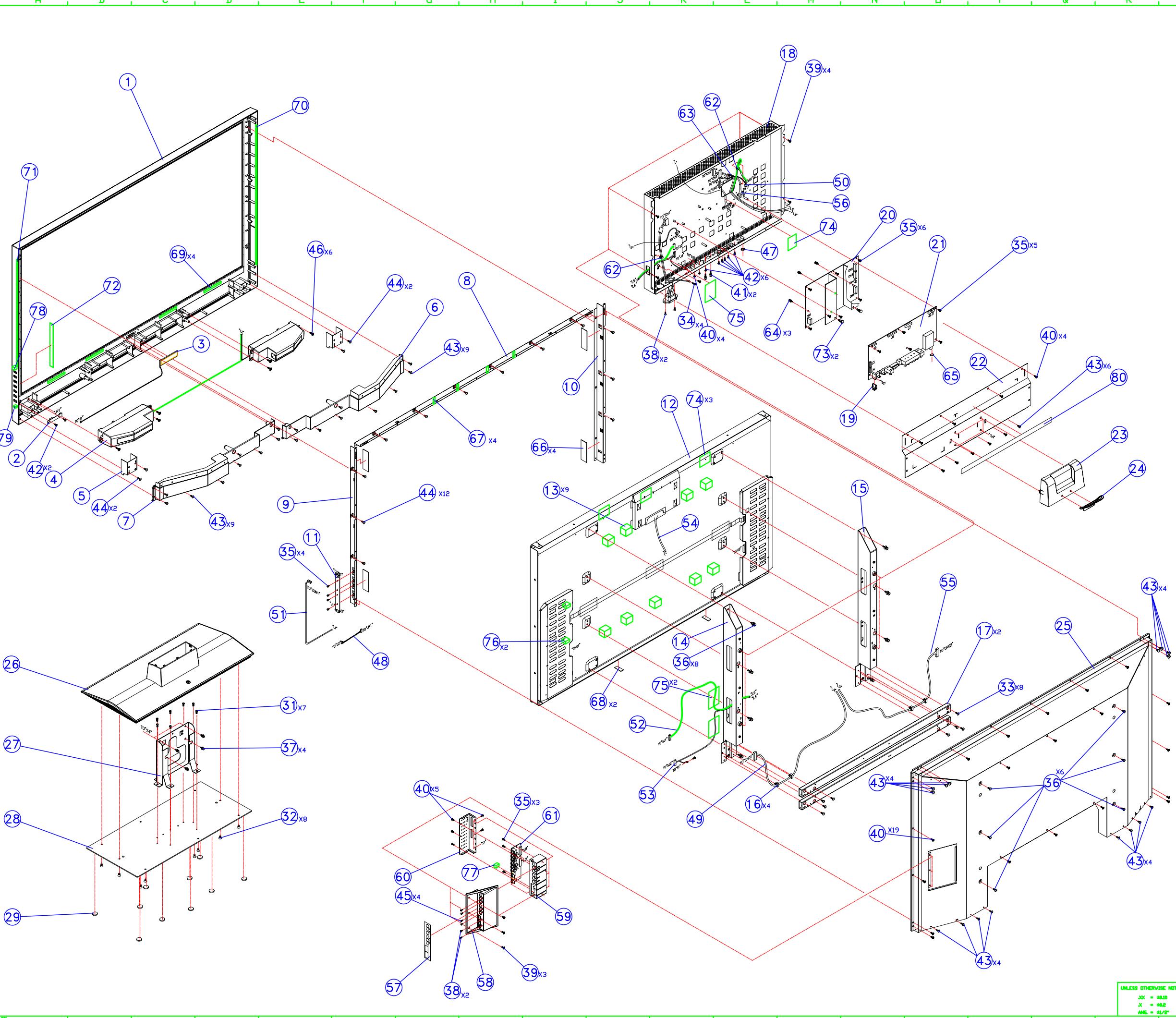
2. POWER BD ASS'Y/AUDIO BD ASS'Y REMOVAL

- 1) Remove the connector ⑧ ⑨ (CN2)(CN3) of the inverter cable.
- 2) Remove the connector ⑩ (CN4) of the Main cable1.
- 3) Remove the connector ⑪ (CN5) of the Main cable.
- 4) Remove six screws ⑬ from Power BD ASS'Y .
- 5) Remove the connector ⑫ (CN1) of the Power cable.
- 6) Remove three spacer supports ⑭.
- 7) Separate the Power BD ASS'Y .

3. MAIN BD ASS'Y /CONNECTOR BD(S-VIEDO)ASS'Y REMOVAL

- 1) Remove the connector ⑯ (J6) of the LVDS cable.
- 3) Remove the connector ⑮ (J5) of the Keypad cable.
- 4) Remove the connector ⑯ ⑰ (J7)(J1) of the Power BD cable1/2.
- 5) Remove the connector ⑯ (J2) of the speaker cable.
- 6) Remove the connector ⑯ ⑯ (J3) (J4) of the side jack cable1/2.
- 7) Remove six screws ⑯ from MAIN BD Ass'y.
- 8) Remove ten screws ⑯ ,two screws hexagon ⑯ from PCB support.
- 11) Separate the MAIN BD Ass'Y





ITEM	DESCRIPTION	QTY
1	FRONT BEZEL (VO47L)(ABS 94-HB, T52013) ASS'Y	1
2	IR BD ASSY VX32L HDTV20A	1
3	LED BACKLIGHT 18*50 LYSB-4916W/SY 580mm	1
4	SPK BOX 10W 6ohm 2way W/CORE 1200/650	1
5	LCD PANEL BOTTOM SUPPORT (VO47L)(SECC T=1.0)	2
6	SPEAKER REAR COVER_L (VO47L)	1
7	SPEAKER REAR COVER_R (VO47L)	1
8	PANEL BKT_T (VO47L)(SECC T=1.0mm)	1
9	PANEL BKT_VL (VO47L)(SECC T=1.0mm)	1
10	PANEL BKT_VR (VO47L)(SECC T=1.0mm)	1
11	DISPLAY BD ASSY VX32L HDTV20A	1
12	LCD MODULE 47.0" TFT LC470WUN-SAA1 (LG.PHILIPS)	1
13	GASKET BLOCK (30.0L*25.0W*25.0H)	9
14	PANEL BKT_L (GV47L)(SPHC T=1.5mm)	1
15	PANEL BKT_R (GV47L)(SPHC T=1.5mm)	1
16	WIRE SADDLE (CH-02)	4
17	BASE SUPPORT (G047L)(SPHC T=1.5mm)	2
18	PCB SUPPORT (VO47L)(SECC T=0.8mm)	1
19	USB CONNECTOR COVER(USBC-2)	1
20	POWER BD ASSY DPS-380LP-1A LF	1
21	MAIN BD ASSY(WV47L FHD7V10A_LPL (HDCP)	1
22	IO BKT (VO47L)	1
23	BASE COVER (VO47L)(ABS)	1
24	CABLE CLIP BLACK (G047 HDTV)	1
25	REAR COVER (VO47L-20A)BLACK	1
26	BASE (VO47L)(ABS 94-HB, T52013)	1
27	BASE FRAME (VO47L)(SGHC T=1.6mm)	1
28	BASE PLATE (VO47L)(SGHC T=3.0mm)	1
29	BASE FOOT C 18.0*2.0L, PORON)	10
30	AC INLET 0707-1-CN/VHRSP 1617 270mm 1015 80mm+CORE	1
31	MAC. SCREW-M4.0*10.0L,Ni	7
32	TAP. SCREW-TF #4.0*10.0L, Ni	8
33	MAC. SCREW-MB(point) M4.0*8.0L,BLK--Ni	14
34	MAC. SCREW-MPGW M4.0*8.0L,Ni	1
35	MAC.SCREW--MPSWF M3.0*6.0L, Ni	19
36	MAC. SCREW--MPSWF M4.0*8.0L,Ni	8
37	MAC. SCREW--MPSWF(point) M4.0*12.0L,Ni	4
38	MAC. SCREW--MF M3.0*8.0L,BLK--Ni	4
39	MAC. SCREW--MRFH M3.0*7.0L, BLK--Ni	3
40	MAC. SCREW--MRFH M3.0*6.0L, BLK--Ni	35
41	MAC. SCREW--MHWS #4-40*8.0L,Ni	2
42	TAP. SCREW--TP #3.0x8.0L, Ni	8
43	TAP. SCREW--TB #3.0*12.0L, BLK--Ni	40
44	TAP. SCREW--TP #4.0*10.0L,Ni	16
45	TAP. SCREW-TF #M3.0X8.0L,BLK--Ni	4
46	TAP. SCREW-TF #4.0*12.0L,Ni	6
47	NUT 3/8 * -32(W12.5*2.0L,Ni)(FOR TUNER)	1
48	WH PH4P-PH4P 1061#26 1.30mm LF	1
49	WH A2001H02-14P/A2543H00-13P 1007#24 900mm	1
50	WH A2501-5/A2543-4 1007#22 300mm+CORE	1
51	WH A1251-12/A1251-10 1571#28 880mm	1
52	WH A2001-15/A2001-15 20276#30 550mm+CORE	1
53	WH P240420/P240420 20276#30 550mm+GND*2	1
54	WH PKS24020P51/P2404320 20276#30 400mm rev2	1
55	WH A2543H00-13P/A2001H02-12P 1007#24 800mm	1
56	WH A2543-15/A2001-15 1007#24 260mm+CORE	1
57	SIDE JACK PLATE VIZO VO47L FHD7V20A	1
58	SIDE JACK COVER(VO47L20A)(ABS 94-5V/T52013)	1
59	SIDE JACK SHIELDING_(VO47L20A)(SPTE 0.5t)	1
60	SIDE JACK SHIELDING_2 (VO47L20A)(SPTE 0.5t)	1
61	WIRE SADDLE (CH-02)	4
62	WIRE SADDLE (CH-01B)	2
63	WIRE SADDLE (CH-14)	1
64	SPACER SUPPORT (TCL-07)	3
65	INSULATOR(D16*d10*1.2)(TRANSPARENT)	1
66	MYLAR (26*80*1.2mm)(VO47L HDTV10A)	4
67	MYLAR(25.0L*8.0W*1.2t)(VO47L)	4
68	MYLAR (30.0L*12.0W*1.2t)(VO47L HDTV10A)	2
69	MYLAR (60.0L*7.0W*2.8t)(VO47L FHD7V10A)	4
70	SPONGE (570*5.5*1.2t)	1
71	SPONGE (435*5.5*1.2t)	1
72	SPONGE (175*15*1.2t)	1
73	CANO CLIP	2
74	SHIELDING AL TAPE (50.0*40.0)	5
75	SHIELDING AL TAPE (50.0W*70.0L)(HP Obi Wan-24)	3
76	GASKET BLOCK (10.0W*20.0L*17.0H)(HP Obi Wan-24)	2
77	Gasket Block(10W*14L*15H)(SV42/47)	1
78	RUBBER ((12*10*2.5*)(VO47L FHD7V10A)	1
79	RUBBER ((12*10*2.10*)(VO47L FHD7V10A)	1
80	D_C_LPL_HD7V10A_VD12L_FHD7V20A	1

VIZIO VO47L_FHDTV_20A_LPL(WUN)		9647-8500-7053
DESCRIPTION		PART NO.
INTRAN TECHNOLOGY Co., Ltd.	THIRD ANGLE PROJECTION 	MODEL No. VIZIO VO47L_FHDTV_20A (LPL_WUN)
Jessie Yu	97/06/2	MATERIAL: 66666 DVG. HAND: 47" CASE ASS'Y
	QTY: 1 SIZE: A1	DVG. NO. VIZIO VO47L_FHDTV_20A_LPL_WUN REV. 0 SHEET 1 of 1
	SCALE Full UNIT: MM	